

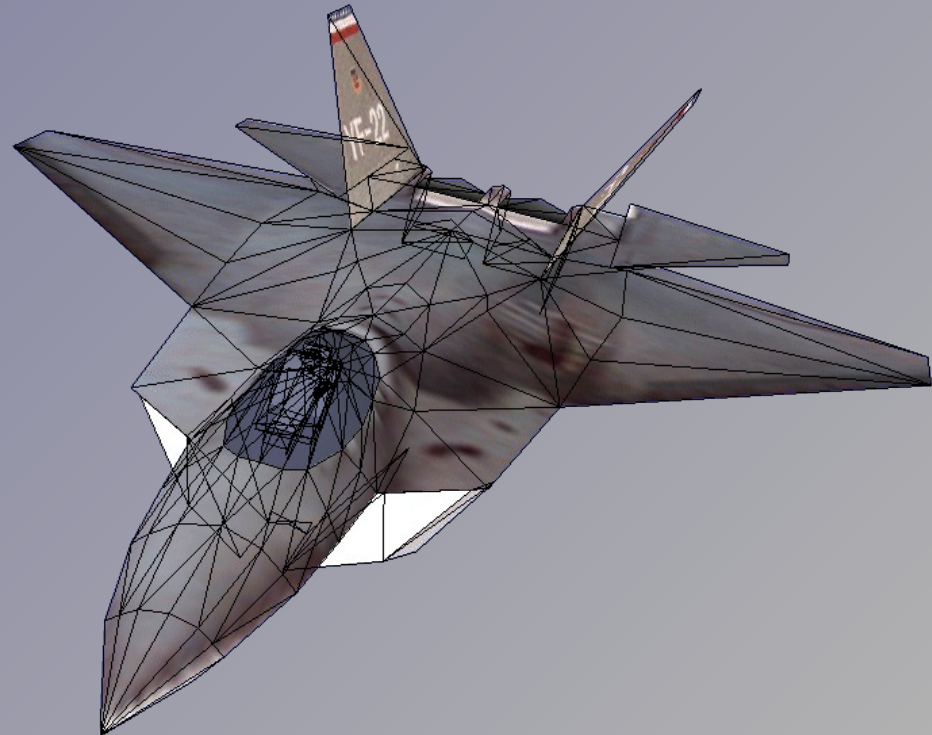


Jview

An

Information

- Dynamic Planning and Execution
- AF Directive; Agile Air Force
- Information Science and Exploration



W• Graphics API and Environment

- Eliminates duplication of effort (Up to 50% time spent on Visualization)
- Demystifies the complicated world of graphics
- Allows users to concentrate on the difficult task of Information Visualization
- 2D, 2.5D and 3D Visualization of Heterogeneous Data
- Allows for Importing, Displaying and Fusing of Multiple Simultaneous Information Sources
- Runtime Reconfigurability
- Rapid Prototype and Deployment
- Easy Maintenance
- Cross Computing Platform (SUN, PC, SGI, Linux, Mac)
- Developed Solely In-House

- W• Facilitators (Venue specific application)
 - Audit Trail visualization
 - Digital Terrain Elevation Data (DTED)
 - Listening for TCP/IP traffic from NEADS
- Plugins (Venue inspecific)
 - Movement Paradigm
 - Camera bookmarks into the scene
- Oddments
 - Model Loader (OBJ, FLT, VRML,...)
 - DTED Loader (CADRG, DFAD,...)

W• Graphics API and Environment

- Utilizes Java, Java3D, Magician and Java's Runtime Class Loader
- Graphics engine is a broker instead of attempting omnipotence
- Utilizes OpenGL for hardware acceleration and COTS support

Graph3D

Universe3D

Scene

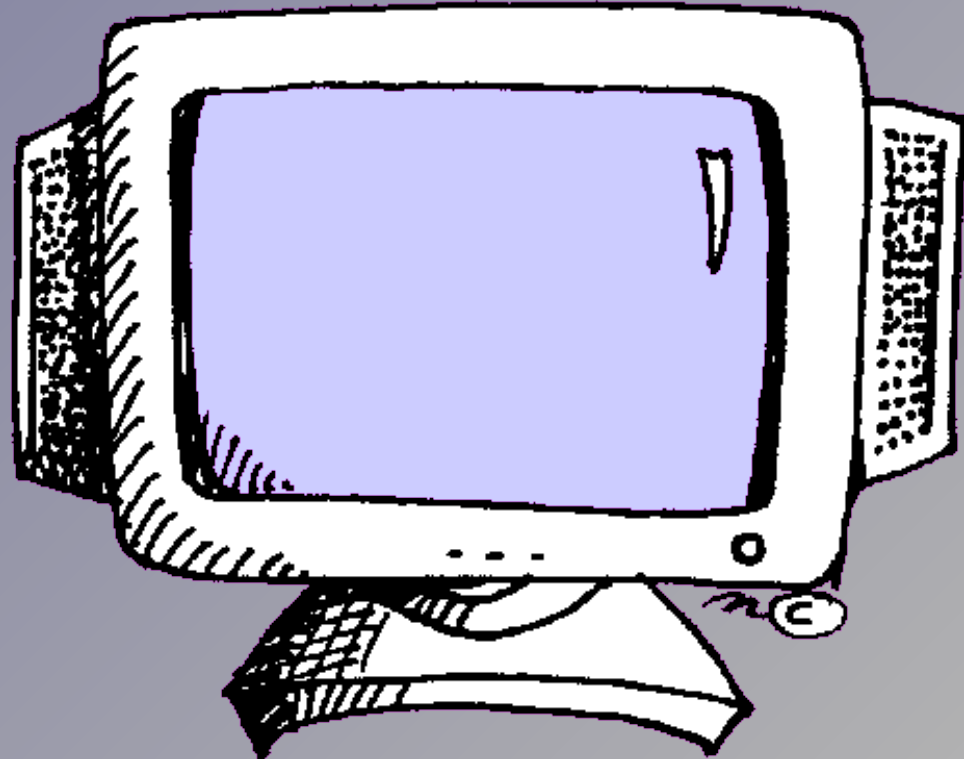
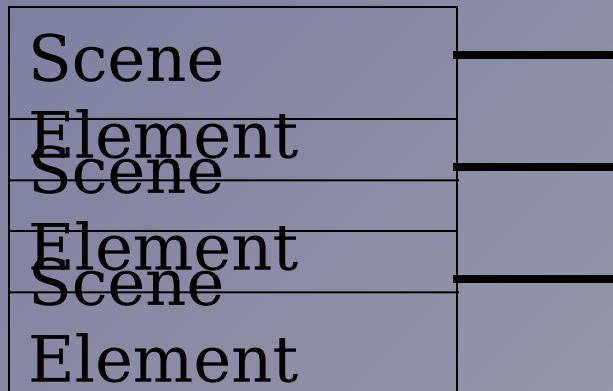
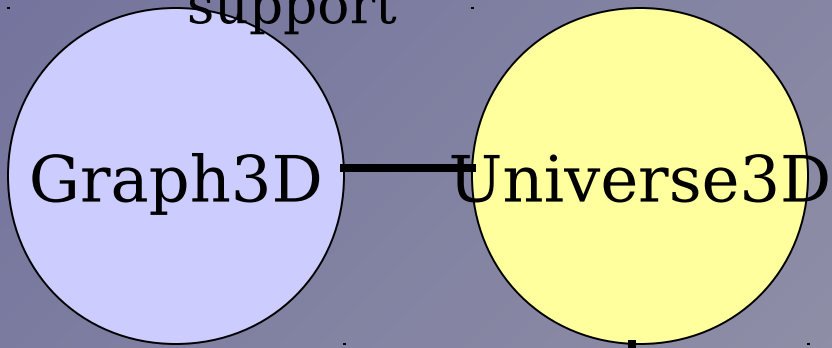
Element
Scene

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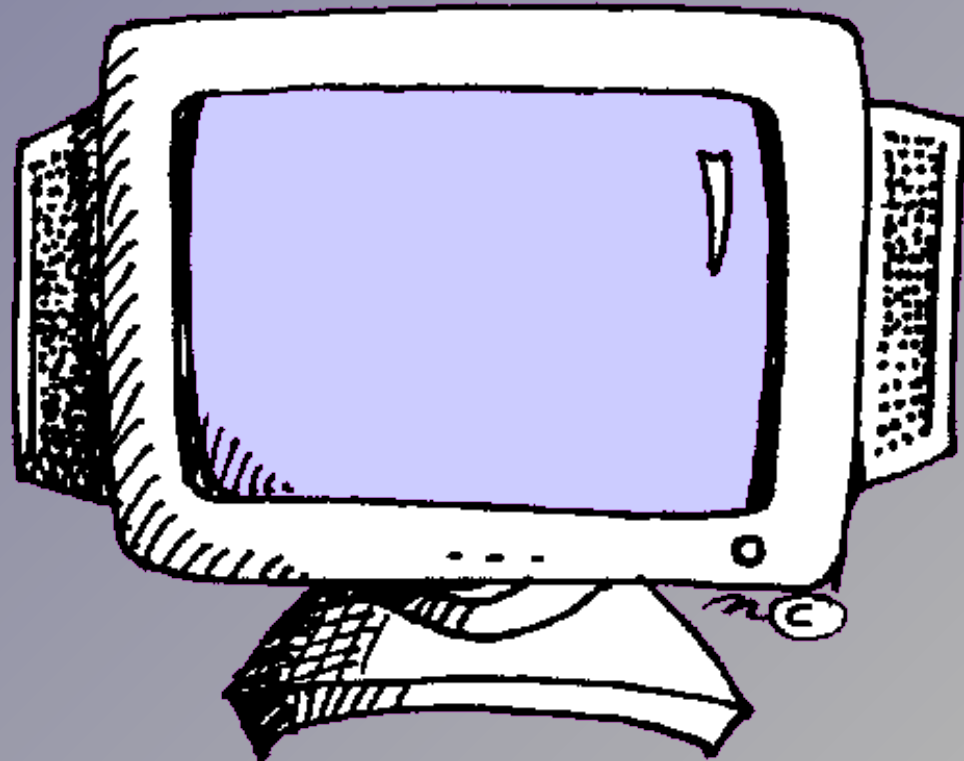
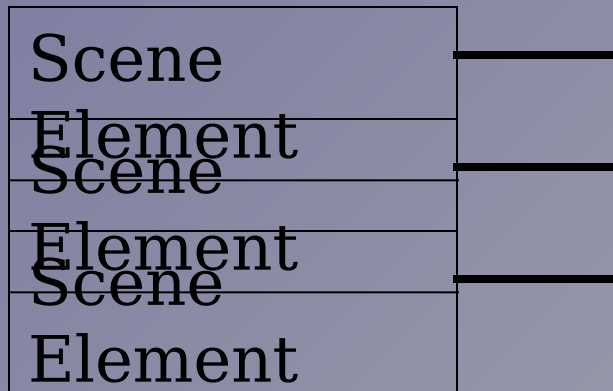
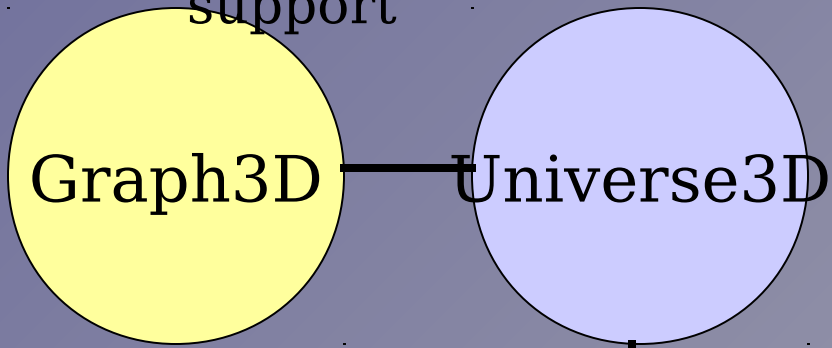
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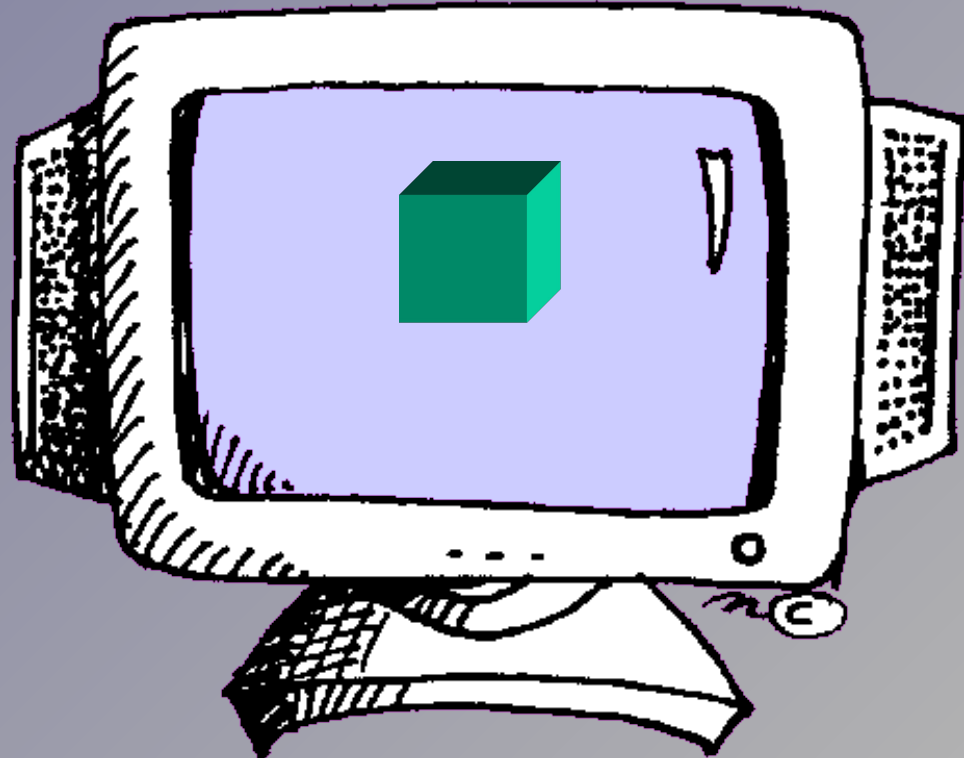
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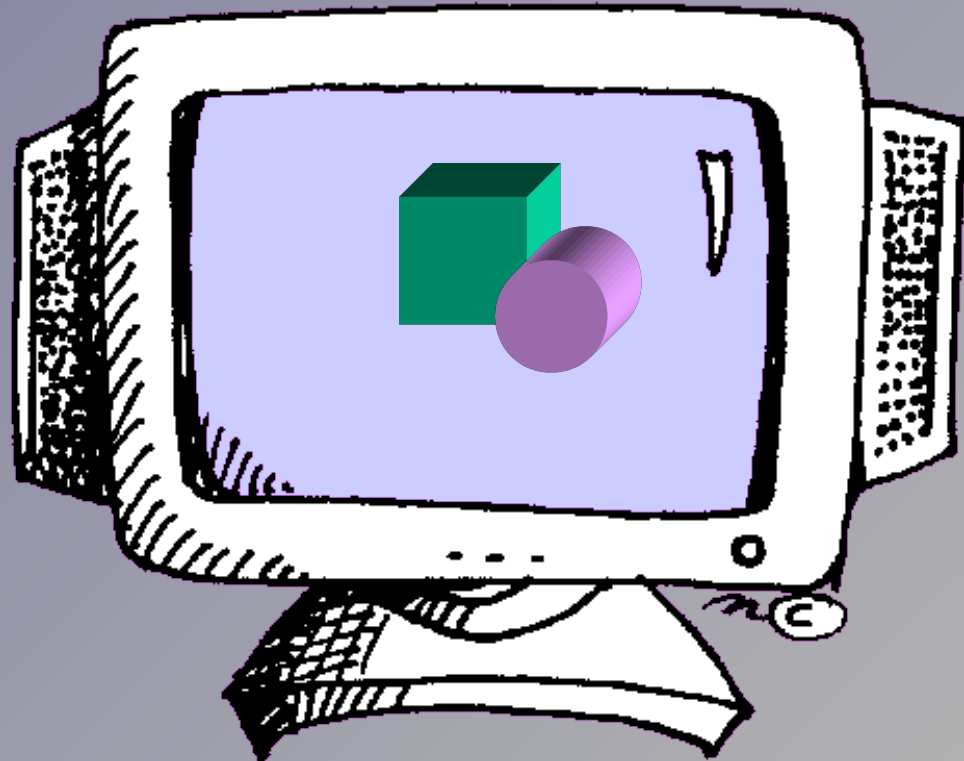
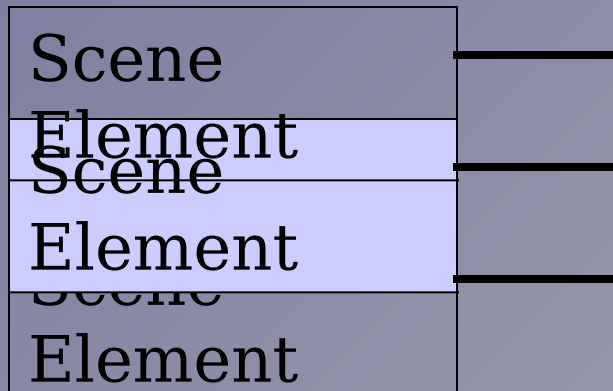
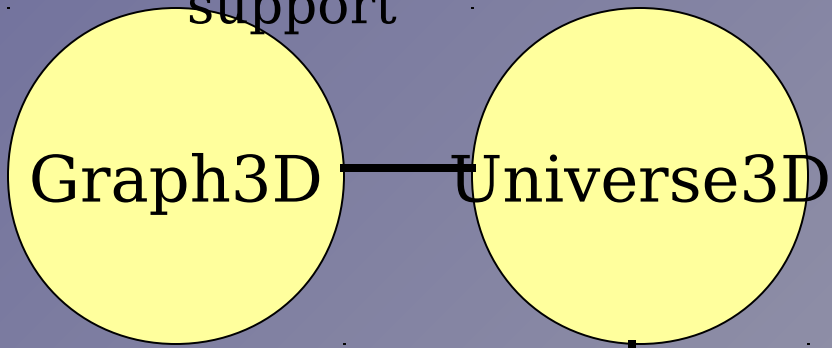
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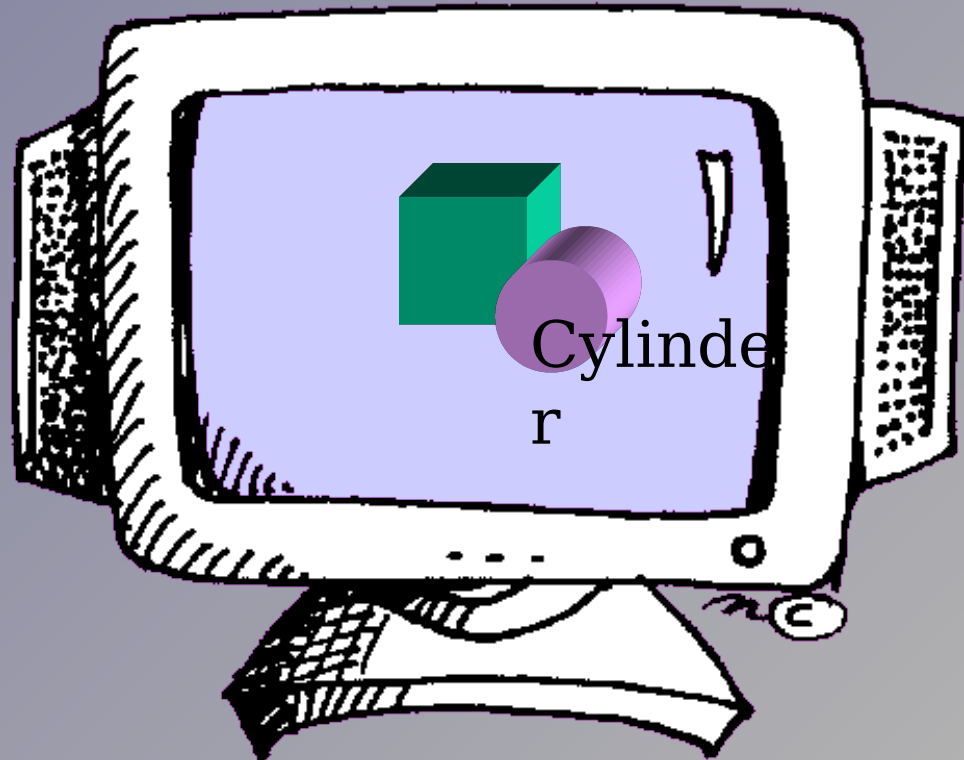
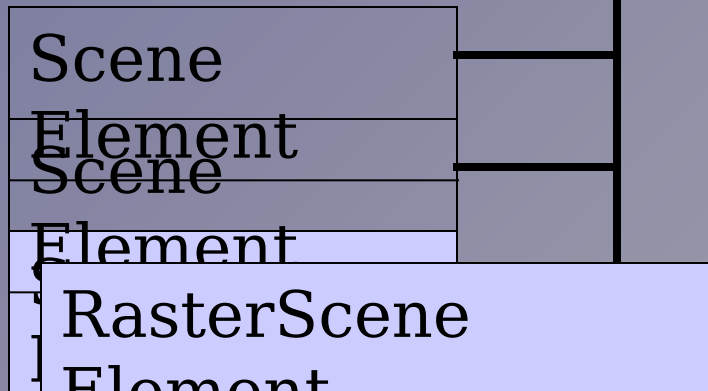
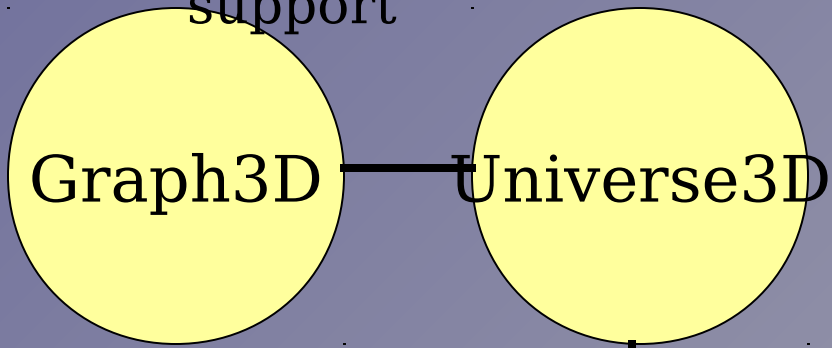
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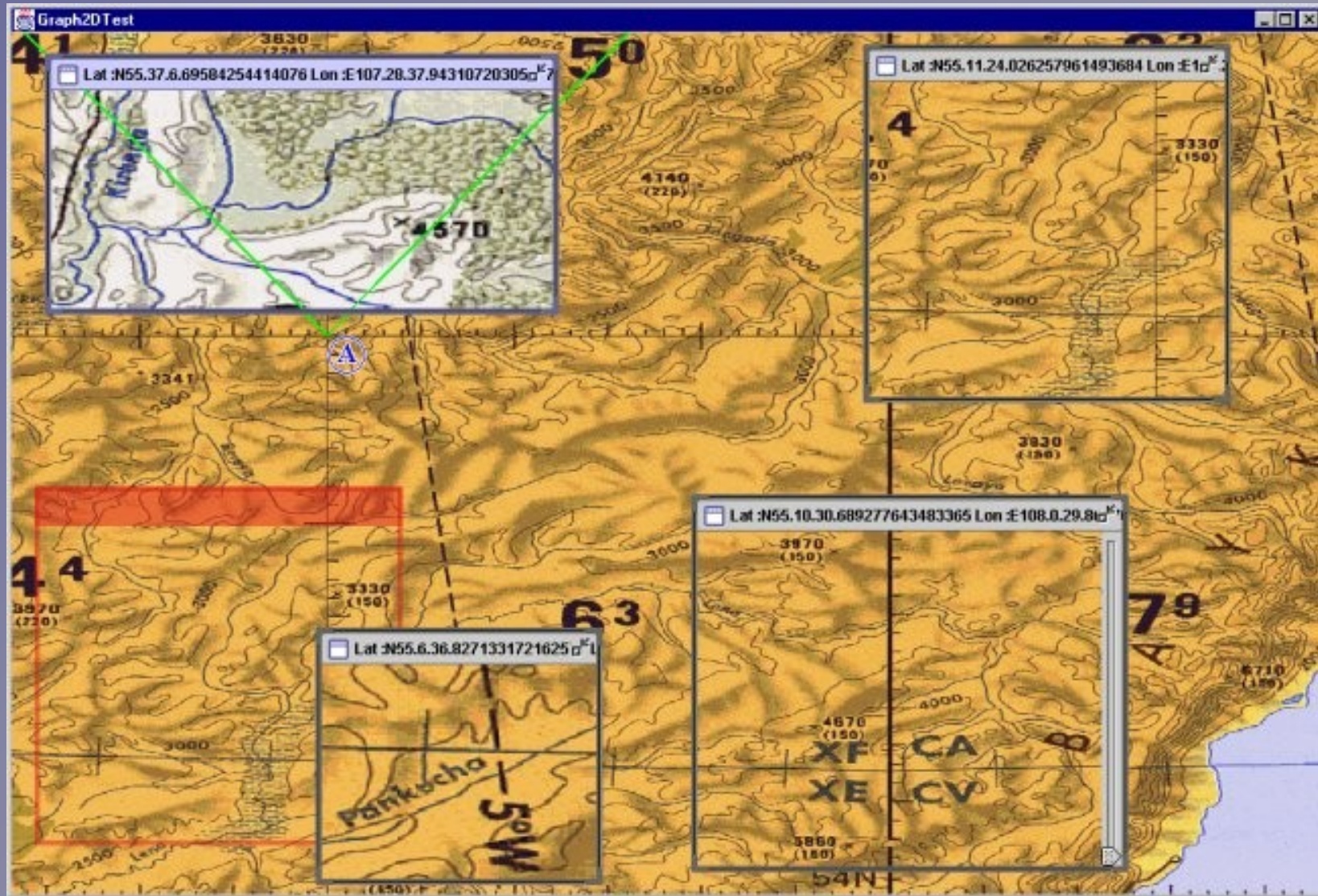


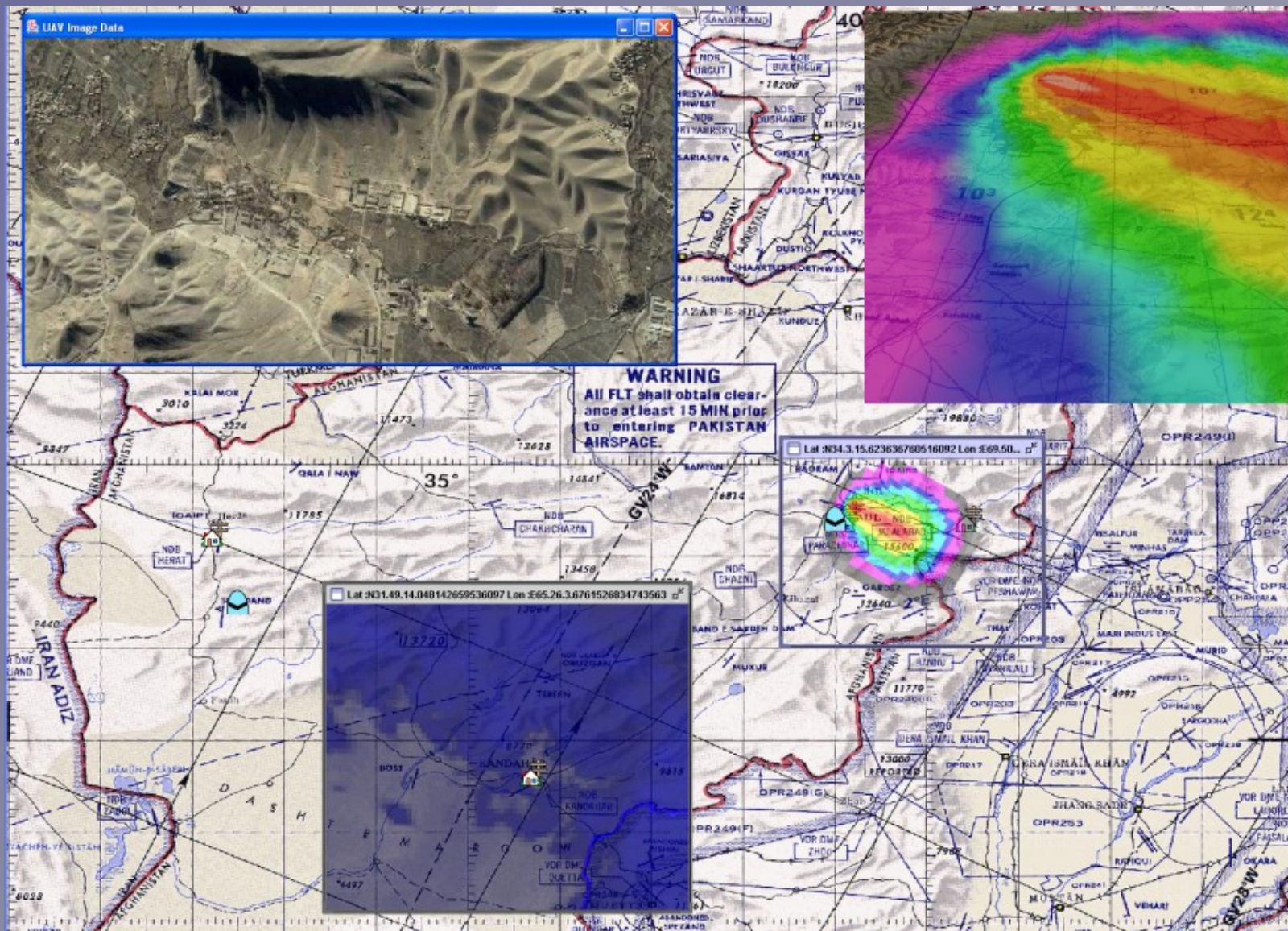
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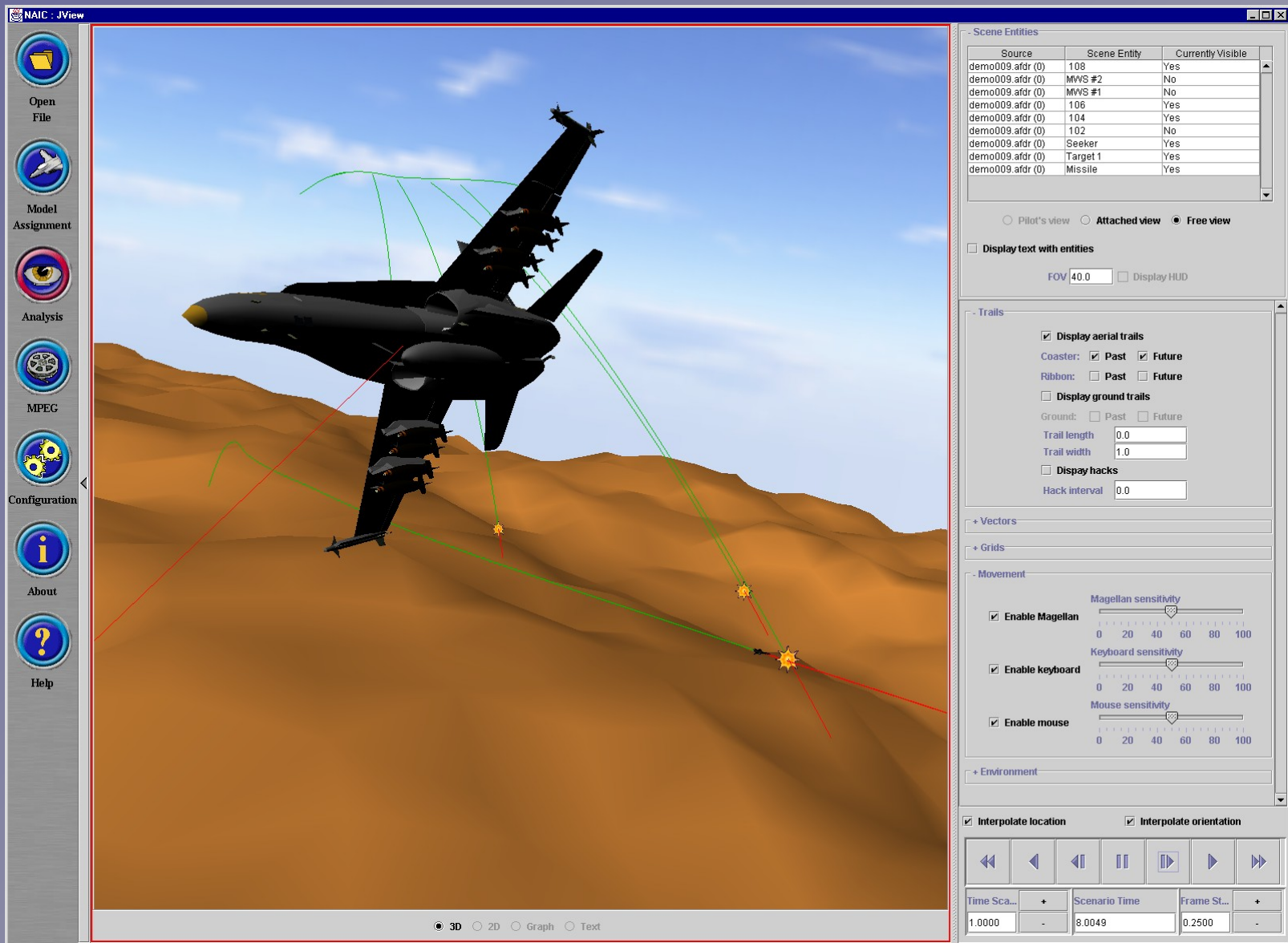


Goals; Where are we going?

- Drag and Drop reconfiguration capability utilizing open standards implementation
- Distribution among Gov. Agencies, Universities, and Commercial
• Numerous contracts at NAIC with JView specified as visualizer
- Complete digital information suite
 - Capabilities to load all industry standard files
 - Web based capability
 - Generate digital content (MPEG, DVD,...)
- Exploration of local and distributed interaction/analysis
 - World-wide portal into distributed data (JBI)
 - Visualization based on needs and capabilities
 - Creating an intelligence application for analysis



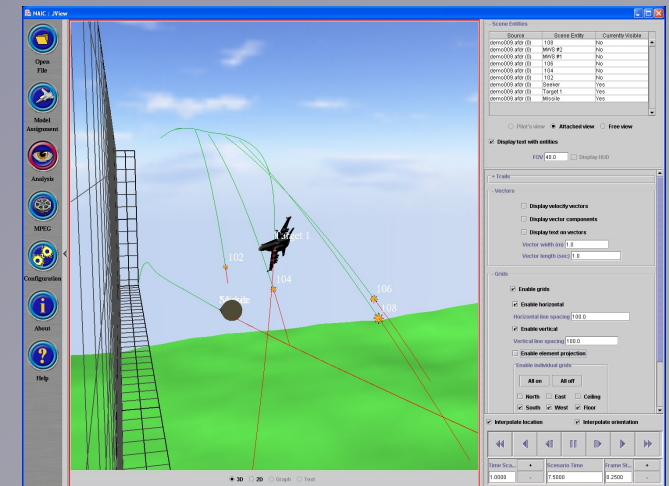
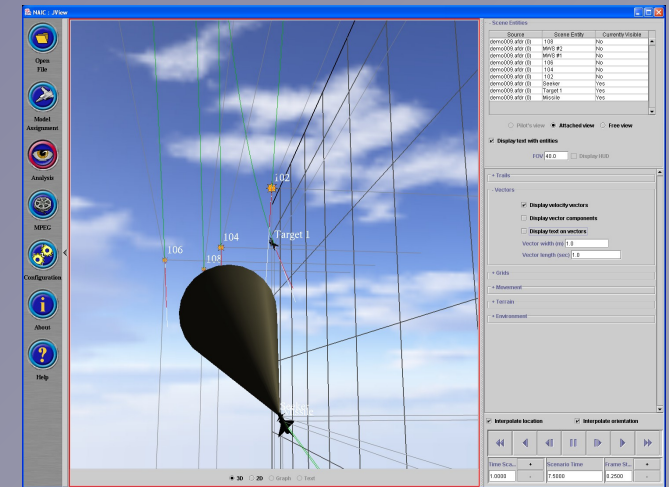
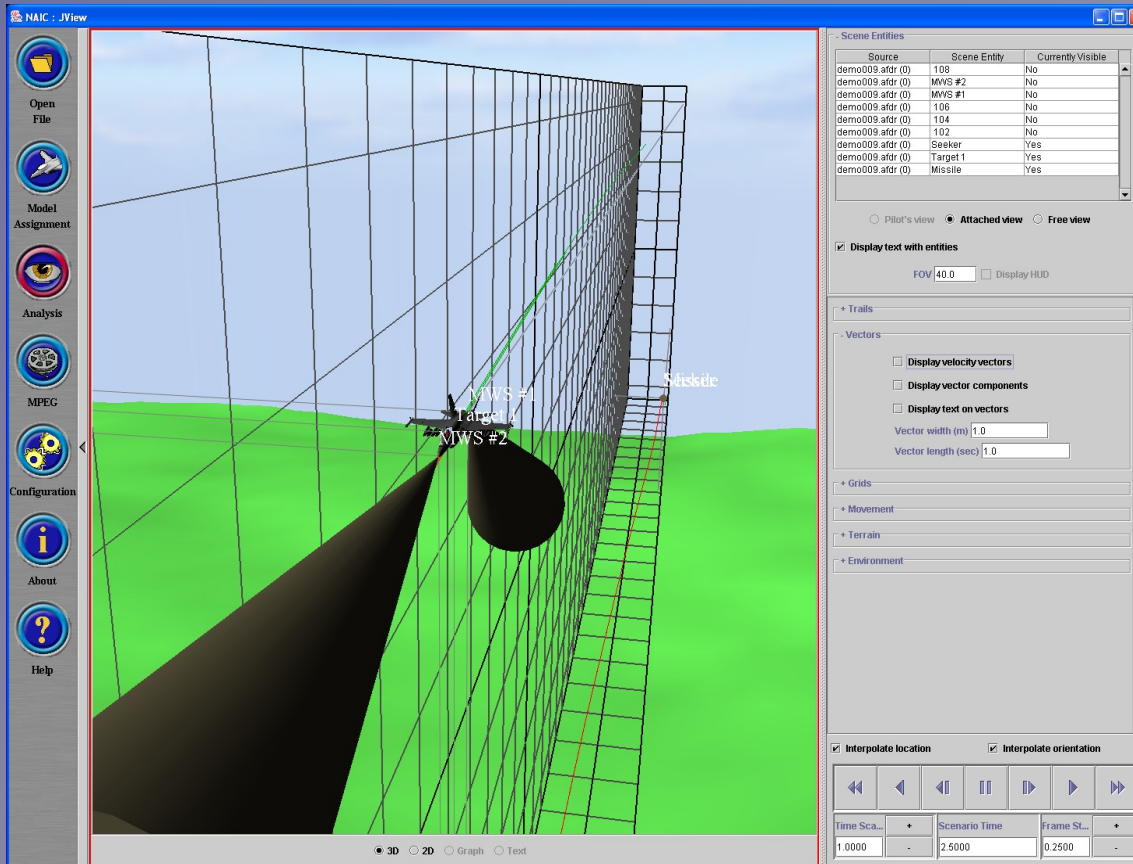




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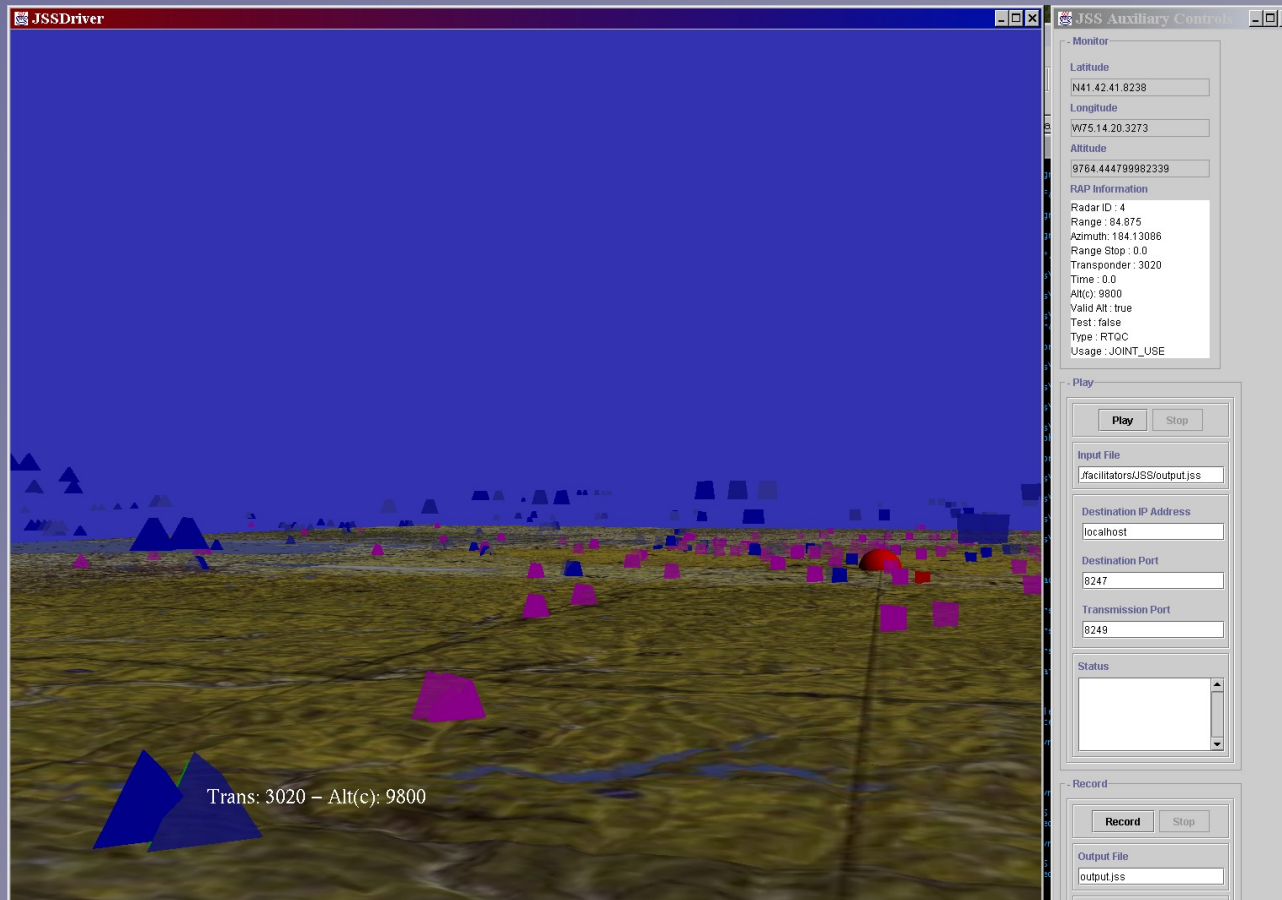
W

3D Engine...



JView W

3D Engine...





- Enables effective display & manipulation of large amounts of real-time, multimedia data in a Command & Control (C2) environment
- Enables collaboration & interaction; key to solving the information management problems facing the 21st century military commander
- Enhanced Human Computer Interaction for Multiple Simultaneous Users
- Fixed, Portable, & Deployable versions

w

- Application independent framework for 2D, 2.5D and 3D graphics
- Providing a very competitive product for our customers through price and capabilities
- Creating the basis for visualization research, both applied and independent.
- Exploring the gamut of software, hardware and human interaction.

Questions and